DIN EN 17415-1:2021-11 (E)

District cooling pipes - Bonded single pipe systems for directly buried cold water networks - Part 1: Factory made pipe assembly of steel or plastic service pipe, polyurethane thermal insulation and a casing of polyethylene

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 7

4 Requirements 7
4.1 General 7
4.2 Service pipes 7
4.3 Casing 11
4.4 Polyurethane (PUR) foam thermal insulation 13
4.5 Pipe assembly 14

5 Test methods 19
5.1 General conditions and test specimens 19
5.2 Casing 20
5.3 Polyurethane (PUR) foam thermal insulation 22
5.4 Pipe assembly 24

6 Marking 27
6.1 General 27
6.2 Service pipe 28
6.3 Casing 28
6.4 Pipe assembly 28

Annex A (informative) Guidelines for inspection and testing 29

Annex B (normative) Thermal conductivity of factory made pipe assemblies - Test procedure 33

Annex C (informative) Waste treatment and recycling 38

Annex D (informative) Application of Miner's Rule 39

Bibliography 42